

## **Regional HIV/AIDS Epidemiologic Profile of Metrowest HSR, Massachusetts: 2014**

### **Recent changes to the presentation of Massachusetts HIV/AIDS surveillance data**

Effective January 1, 2011, the Massachusetts Department of Public Health (MDPH), Bureau of Infectious Diseases, HIV/AIDS fact sheets, epidemiologic reports and other HIV data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts. As of January 1, 2014, this resulted in the removal of 4,135 HIV/AIDS cases, of which 973 have died and 3,162 were living. These persons living with HIV/AIDS may still continue to reside and receive care in the Commonwealth. The total number of persons living with HIV/AIDS, irrespective of location at diagnosis, is the basis for MDPH service planning. This change is partially a result of increased activities required by the Centers for Disease Control and Prevention (CDC) for de-duplication among states in an effort to identify cases that are counted multiple times in the National HIV/AIDS Surveillance System. The cases are assigned to the state that reports the earliest date of AIDS diagnosis if available. If the case has not progressed to AIDS, the case is assigned to the state with the earliest HIV diagnosis date. Please note that previous HIV/AIDS fact sheets, data reports and presentations included cases that may have been first diagnosed in another state.

Also effective January 1, 2011, the MDPH HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to eliminate the presumed heterosexual reported risk category for men; those cases have been reassigned to the no identified risk (NIR) category. The presumed heterosexual reported risk category was used with the intention of identifying HIV reported risk for women when sex with men is the only reported risk factor, there is no evidence of current or past injection drug use (IDU), and behavioral risk and HIV status information about male sexual partners are unknown. Twenty-nine percent of men living with HIV/AIDS and 40% of recent female HIV diagnoses are reported in the presumed heterosexual reported risk category. The application of the presumed heterosexual reported risk category to men is overly inclusive in that female to male HIV transmission is biologically less probable, and there are alternate reported risks that are possible for men, including sex with other men (MSM) or IDU. The CDC reports men diagnosed with HIV/AIDS who report sex with women as their only risk factor, without corresponding partner risk or HIV status information, in the NIR category. This revision to report presumed heterosexual male HIV/AIDS cases as NIR will bring Massachusetts HIV/AIDS case reporting for men in alignment with CDC standards. The MDPH will maintain presumed heterosexual and heterosexual reported risk categories for women.

**Table 1. Total number of people reported with HIV infection or AIDS<sup>1</sup> by mortality status on December 31, 2013: Metrowest HSR, Massachusetts<sup>2</sup>**

	<b>N</b>	<b>%</b>
People Living with HIV/AIDS	2,799	62%
People Reported with HIV or AIDS who are Deceased	1,729	38%
<b>Total Number of People Reported with HIV Infection or AIDS</b>	<b>4,528</b>	<b>100%</b>

<sup>1</sup> Does not include individuals diagnosed with HIV infection (non-AIDS) who died prior to January 1, 1999 or who were not in care on January 1, 1999

<sup>2</sup> Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/14

**Table 2. Average annual rate of HIV infection diagnosis from 2010 to 2012 and HIV/AIDS prevalence rate on 12/31/13<sup>1</sup>: Metrowest HSR, Massachusetts<sup>2</sup>**

<b>Average annual HIV diagnosis rate from 2010–2012</b>	<b>Average rate per 100,000</b>	<b>Average annual number of HIV diagnoses</b>
Metrowest HSR, MA	7.1	107.3
Massachusetts Total	10.5	688.3

  

<b>HIV/AIDS prevalence rate on 12/31/13</b>	<b>Rate per 100,000</b>	<b>Number of people living with HIV/AIDS</b>
Metrowest HSR, MA	184.0	2,799
Massachusetts Total	292.7	19,165

<sup>1</sup> The denominators for rate calculations are from the MDPH Massachusetts Race Allocated Census 2010 Estimates (MRACE 2010), Massachusetts Department of Public Health, Bureau of Health Information, Statistics, Research, and Evaluation.

<sup>2</sup> Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/14

**Table 3. People living with HIV/AIDS<sup>1</sup>, deaths among people reported with HIV/AIDS, and newly diagnosed HIV infections by year<sup>2</sup>: 2003–2012, Metrowest HSR, Massachusetts<sup>3</sup>**

<b>Year</b>	<b>HIV/AIDS Prevalence</b>	<b>Deaths among those with HIV/AIDS</b>	<b>Diagnosis of HIV Infection</b>
2003	1,946	47	150
2004	2,029	43	126
2005	2,134	36	141
2006	2,197	46	109
2007	2,295	28	126
2008	2,393	25	123
2009	2,488	35	130
2010	2,578	25	115
2011	2,653	28	103
2012	2,728	29	104

<sup>1</sup> Number of people living with HIV/AIDS on 12/31 of each year

<sup>2</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

<sup>3</sup> Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>4</sup> Values less than five are suppressed for populations less than 50,000 or for populations of unknown size for the assurance of confidentiality. Additional values may be suppressed to prevent back calculation.

Data source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/14

**Table 4. People diagnosed with HIV infection from 2010–2012<sup>1</sup> and people living with HIV/AIDS on December 31, 2013 by gender, place of birth, race/ethnicity, exposure mode, age at HIV infection diagnosis and current age: Metrowest HSR, Massachusetts<sup>2</sup>**

HIV Infection Diagnoses			PLWH/A	
Gender:	N	%	N	%
Male	234	73%	2,003	72%
Female	88	27%	796	28%
Place of Birth:	N	%	N	%
US	-- <sup>7</sup>	-- <sup>7</sup>	1,694	61%
Puerto Rico/US Dependency <sup>3</sup>	-- <sup>7</sup>	-- <sup>7</sup>	77	3%
Non-US	145	45%	1,028	37%
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	137	43%	1,388	50%
Black (non-Hispanic)	108	34%	967	35%
Hispanic/Latino	61	19%	359	13%
Asian/Pacific Islander	15	5%	71	3%
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	151	47%	1,149	41%
Injection Drug Use (IDU)	10	3%	296	11%
MSM/IDU	-- <sup>7</sup>	-- <sup>7</sup>	88	3%
Heterosexual Sex	31	10%	374	13%
Other	-- <sup>7</sup>	-- <sup>7</sup>	67	2%
Total Undetermined	119	37%	825	29%
• Presumed Heterosexual Sex <sup>4</sup>	41	13%	313	11%
• Undetermined <sup>5</sup>	78	24%	512	18%
Age:	N	%	N	%
	At Diagnosis		On December 31, 2013	
Under 13	4	1%	5	<1%
13 to 19	7	2%	12	<1%
20 to 24	30	9%	42	2%
25 to 29	40	12%	91	3%
30 to 34	40	12%	148	5%
35 to 39	42	13%	190	7%
40 to 44	51	16%	316	11%
45 to 49	51	16%	501	18%
50 to 54	27	8%	570	20%
55 to 59	15	5%	429	15%
60+	15	5%	495	18%
<b>Total<sup>6</sup></b>	<b>322</b>	<b>100%</b>	<b>2,799</b>	<b>100%</b>

<sup>1</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

<sup>2</sup> Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>3</sup> Ninety-eight percent of people diagnosed with HIV infection from 2010–2012 who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, 1% were born in Guam and 1% were born in an unknown dependency.

<sup>4</sup> Includes female sex with male of unknown HIV status or risk. This category is limited to females.

<sup>5</sup> Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

<sup>6</sup> Total includes American Indian/Alaska Native, other and unspecified race/ethnicity.

<sup>7</sup> Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/14

**Table 5. People living with HIV/AIDS on December 31, 2013 by gender and race/ethnicity: Metrowest HSR, Massachusetts<sup>1</sup>**

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	1,173	59%	215	27%
Black (non-Hispanic)	485	24%	482	61%
Hispanic/Latino	272	14%	87	11%
Asian/Pacific Islander	60	3%	11	1%
<b>Total<sup>2</sup></b>	<b>2,003</b>	<b>100%</b>	<b>796</b>	<b>100%</b>

<sup>1</sup> Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Total includes American Indian/Alaska Native, other and unspecified race/ethnicity.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/14

**Table 6. People living with HIV/AIDS on December 31, 2013 by gender and exposure mode: Metrowest HSR, Massachusetts<sup>1</sup>**

Exposure Mode:	Male		Female	
	N	%	N	%
Male-to-male sex (MSM)	1,149	57%	N/A	N/A
Injection drug use (IDU)	177	9%	119	15%
MSM/IDU	88	4%	N/A	N/A
Heterosexual sex	120	6%	254	32%
Other	41	2%	26	3%
Total Undetermined	428	21%	397	50%
• Presumed heterosexual sex <sup>2</sup>	N/A	N/A	313	39%
• Undetermined <sup>3</sup>	428	21%	84	11%
<b>Total</b>	<b>2,003</b>	<b>100%</b>	<b>796</b>	<b>100%</b>

<sup>1</sup> Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Includes female sex with male of unknown HIV status or risk. This category is limited to females.

<sup>3</sup> Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

N/A=Not Applicable

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/14

**Table 7. People diagnosed with HIV infection by gender and year of diagnosis: Metrowest HSR, Massachusetts<sup>1</sup>, 2003–2012<sup>2</sup>**

	Male		Female		Total
	N	%	N	%	
2003	103	69%	47	31%	150
2004	91	72%	35	28%	126
2005	104	74%	37	26%	141
2006	79	72%	30	28%	109
2007	82	65%	44	35%	126
2008	90	73%	33	27%	123
2009	106	82%	24	18%	130
2010	88	77%	27	23%	115
2011	74	72%	29	28%	103
2012	72	69%	32	31%	104

<sup>1</sup> Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/14

**Table 8. People diagnosed with HIV infection by race/ethnicity and year of diagnosis: Metrowest HSR, Massachusetts<sup>1</sup>, 2003–2012<sup>2</sup>**

	White Non-Hispanic		Black Non-Hispanic		Hispanic/Latino		Total <sup>3</sup>
	N	%	N	%	N	%	N
2003	66	44%	62	41%	21	14%	150
2004	63	50%	42	33%	18	14%	126
2005	71	50%	51	36%	15	11%	141
2006	56	51%	30	28%	18	17%	109
2007	51	40%	55	44%	17	13%	126
2008	54	44%	45	37%	17	14%	123
2009	63	48%	38	29%	20	15%	130
2010	48	42%	32	28%	31	27%	115
2011	43	42%	40	39%	14	14%	103
2012	46	44%	36	35%	16	15%	104

<sup>1</sup> Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

<sup>3</sup> Totals include Asian/Pacific Islander, American Indian/Alaskan Native individuals, and those of other or undetermined race/ethnicity.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/14

**Table 9. People diagnosed with HIV infection by place of birth and year of diagnosis: Metrowest HSR, Massachusetts<sup>1</sup>, 2003–2012<sup>2</sup>**

	US		Puerto Rico/ US Dependency <sup>3</sup>		Non-US		Total
	N	%	N	%	N	%	N
2003	78	52%	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	<b>150</b>
2004	72	57%	6	5%	48	38%	<b>126</b>
2005	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	65	46%	<b>141</b>
2006	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	44	40%	<b>109</b>
2007	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	51	40%	<b>126</b>
2008	72	59%	5	4%	46	37%	<b>123</b>
2009	70	54%	6	5%	54	42%	<b>130</b>
2010	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	46	40%	<b>115</b>
2011	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	47	46%	<b>103</b>
2012	52	50%	0	0%	52	50%	<b>104</b>

<sup>1</sup> Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

<sup>3</sup> Ninety-eight percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, <1% were born in Guam and 1% were born in an unknown dependency.

<sup>4</sup> Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/14

**Table 10. People diagnosed with HIV infection by exposure mode and year of diagnosis: Metrowest HSR, Massachusetts<sup>1</sup>, 2003–2012<sup>2</sup>**

	MSM		IDU		MSM/ IDU		HTSX		Other		Pres. HTSX <sup>3</sup>		Undeter- mined <sup>4</sup>		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2003	49	33%	11	7%	5	3%	22	15%	5	3%	26	17%	32	21%	<b>150</b>
2004	45	36%	12	10%	5	4%	19	15%	0	0%	13	10%	32	25%	<b>126</b>
2005	52	37%	12	9%	-- <sup>5</sup>	-- <sup>5</sup>	19	13%	-- <sup>5</sup>	-- <sup>5</sup>	17	12%	37	26%	<b>141</b>
2006	52	48%	14	13%	-- <sup>5</sup>	-- <sup>5</sup>	15	14%	-- <sup>5</sup>	-- <sup>5</sup>	10	9%	15	14%	<b>109</b>
2007	43	34%	10	8%	-- <sup>5</sup>	-- <sup>5</sup>	16	13%	-- <sup>5</sup>	-- <sup>5</sup>	20	16%	34	27%	<b>126</b>
2008	55	45%	7	6%	-- <sup>5</sup>	-- <sup>5</sup>	11	9%	-- <sup>5</sup>	-- <sup>5</sup>	18	15%	26	21%	<b>123</b>
2009	68	52%	6	5%	5	4%	13	10%	0	0%	11	8%	27	21%	<b>130</b>
2010	57	50%	5	4%	-- <sup>5</sup>	-- <sup>5</sup>	11	10%	-- <sup>5</sup>	-- <sup>5</sup>	11	10%	25	22%	<b>115</b>
2011	47	46%	-- <sup>5</sup>	-- <sup>5</sup>	-- <sup>5</sup>	-- <sup>5</sup>	12	12%	-- <sup>5</sup>	-- <sup>5</sup>	11	11%	25	24%	<b>103</b>
2012	47	45%	-- <sup>5</sup>	-- <sup>5</sup>	0	0%	8	8%	-- <sup>5</sup>	-- <sup>5</sup>	19	18%	28	27%	<b>104</b>

<sup>1</sup> Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

<sup>3</sup> Includes female sex with male of unknown HIV status or risk. This category is limited to females.

<sup>4</sup> Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

<sup>5</sup> Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/14



**Table 11. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by year of diagnosis: Metrowest HSR, Massachusetts<sup>1</sup>, 2003–2012<sup>2</sup>**

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Year:	N	N	%
2003	55	150	37%
2004	43	126	34%
2005	58	141	41%
2006	43	109	39%
2007	53	126	42%
2008	36	123	29%
2009	39	130	30%
2010	38	115	33%
2011	39	103	38%
2012	35	104	34%

<sup>1</sup> Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.  
Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/14

**Table 12. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by gender, race/ethnicity, and place of birth: Metrowest HSR, Massachusetts,<sup>1</sup> 2010–2012<sup>2</sup>**

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
<b>Gender:</b>	<b>N</b>	<b>N</b>	<b>%</b>
Male	85	234	36%
Female	27	88	31%
<b>Race/Ethnicity:</b>	<b>N</b>	<b>N</b>	<b>%</b>
White (non-Hispanic)	49	137	36%
Black (non-Hispanic)	36	108	33%
Hispanic/Latino	22	61	36%
Asian/Pacific Islander	-- <sup>5</sup>	-- <sup>5</sup>	-- <sup>5</sup>
Other/Undetermined <sup>3</sup>	-- <sup>5</sup>	-- <sup>5</sup>	-- <sup>5</sup>
<b>Place of Birth:</b>	<b>N</b>	<b>N</b>	<b>%</b>
US	-- <sup>5</sup>	-- <sup>5</sup>	-- <sup>5</sup>
Puerto Rico/US Dependencies <sup>4</sup>	-- <sup>5</sup>	-- <sup>5</sup>	-- <sup>5</sup>
Non-US	56	145	39%
<b>Total</b>	<b>112</b>	<b>322</b>	<b>35%</b>

<sup>1</sup> Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

<sup>3</sup> Includes American Indian/Alaska Native, other and unspecified race/ethnicity.

<sup>4</sup> Ninety-eight percent of people diagnosed with HIV infection from 2010–2012 who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, 1% were born in Guam and 1% were born in an unknown dependency.

<sup>5</sup> Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/14